

Translate Text

Original text:

Description of CH267177

Vorrichtung an zwei teleskopartig ineinander verschiebbaren Teilen, zum Feststellen dieser Teile in einer beliebigen Längs-Einstellung. Die vorliegende Erfindung betrifft eine Vorrichtung an zwei teleskopartig ineinander verschiebbaren Teilen, z. B. von Skistöcken, Stativbeinen und ähnlichen Gebrauchsgegenständen, zum Feststellen dieser Teile in einer beliebigen Längseinstellung, mit einem im Innern der Teile untergebrachten Blockierorgan.

Gemäss vorliegender Erfindung besteht das Blockierorgan aus mindestens zwei sich zu einem zylinderförmigen Körper ergänzenden, gegeneinander verstellbaren Elementen, und es sind Mittel vorgesehen, welche bei einem Verdrehen der Teile gegeneinander einen Druck auf das Blockierorgan ausüben, das Ganze derart, dass dessen Elemente einen radialen Druck auf den äusseren Teil ausüben.

Zweckmässig ist das Blockierorgan durch eine schräg zur Längsachse der Teile verlaufende Fläche in zwei Elemente geteilt.

Ausführungsbeispiele des Erfindungsgegenstandes sind alii beiliegender Zeichnung dargestellt, in welcher Fig. 1 einen aus drei zu zwei teleskopartig ineinander verschiebbaren Teilen bestehenden Skistock zeigt-, Fig. 2 bis 4 zeigen drei Ausführungsformen in teilweise Axialschnitt, und Fig. 2a bis 4a zeigen zugehörige Blockierorgane in Draufsicht; 5 zeigt ein weiteres Ausführungsbeispiel iiiii Xxialschnitt; Fig. 5a zeigt das Blockierorgan gemäss Fig. 5 in Draufsicht; Fin-. 6 bis 9 zeigen weitere Ausführungsbeispiele in teilweise-i Axialschnitt, und Fig. 6a bis 9a zeigen die zugehörigen Blockierorgane in Draufsicht; 10-10a zeigen

Translation: German » English

Description of CH267177

Device to two interlocking telescopic sliding parts, to identify these parts in any longitudinal Einstellung. The present invention relates to a device at two telescope verschiebbaren interlocking parts, such as Skistöcken, tripod legs and similar Gebrauchsgegenstände, to identify these parts in any Längseinstellung, with a nacts in the parts accommodated Blockierorgan.

According to the present invention, the Blockierorgan from at least two to see a body zylinderförmigen complementary against adjustable elements, and there are resources, which in a twisting of the parts against a pressure on the Blockierorgan exercise, the whole thing so that its elements a radial pressure submit to the exercise part.

Zweckmässig is the Blockierorgan by a schräg-Längsachse to verlauf parts of the border area divided into two elements.

Examples of the execution Erfindungsgegenstandes are alii attached drawing, in which Figure 1, one of three zu zwei-telescope artig interlocking parts verschiebbaren best shows Pole-ing, Fig 2 to 4 show Ausführungsform-or three men in partial axial cut, and Fig. 2a to show 4a associated bodies lock in Draufsicht; 5 shows another game Ausführungsbeispiel iiiii Xxialschnitt; Fig 5a shows the Blockierorgan according to Figure 5 in Draufsicht; Fin. 6 bis 9 show more Ausführungsbeispiele in teilweise-i Axialschnitt and Figure 6a to show the corresponding 9a-Blockierorgane in Draufsicht; 10-10 in a show Draufsicht or axial cut a performance form of courage ter for the production of the axial Pressure on the Blockierorgan and Fi. 11 and 12 or 11. and 12a show more representation in the same form of execution nuts.

The shown in Figure 1 has three Teile 1 Pole, 2 Lind 3 to refrain from welchenje two teleskopartig --- sliding into each other. 4 und 5 designate arrester devices.

The findings locking device to Fig.2 and 2 (t, which express between Rohrteil6 Lind in him versehiebbaren, inner tube teil7 running, has a two to a cylindrical body see complementary .- zenden, after a slant-to Längsaehse of pipeline parts Ele running Fläche8 shared menten9 Lind10 existing Bloekierorgan. In a Umfangsnut the Elemente9 und10 rests Ringfeder11 which the two ele-inente. pressed against each other and from a contact their A-Lissenflächen with the express, Rohrteil6 seeks to separate and ineffective in their position , In which a Versehie seven parts of the pipe is possible. Uin inittels of Bloekieror # ranes a radial acting outside pressure, are co-tel, which in a twist of Teile6-Lind7 against an axial pressure on the Bloekierorgan exercise so that the two Elemente9 und 10 on the Schrägflä before 8 in the axial direction and outside against the Rohrteil6 ge urges. These funds have one in the end of the Rohrtells 7 set Schraubenbolzen 12, by a central Boh rung13 the Elemente9 and 10 hindurehgeht Lind also on the Schra.1-seated mother ibenbolzen 12 to 14 which, by their fortified Ring15 to a material with high coefficient of friction, for example with emery durehsetztem felt Breniselagmaterial or a recovery in conjunction with the express Rohrteil6 held. If they Rohrteile6 und7 twisted against each other, so does the friction of the Ringes15 that the mother 14 and the rotation mitmacht on the bolts and screws 12 to the required axial pressure on the lock Elemente9 und1.0 organes exercise, which the same radially to the outside in the Bloekierstellung lamination. If the Rohrteile6, 7 in ten opposite rotation against twisted sense, it screws the mother Element9 los 14, and the Ringieder 11 which creates a distance of Elementes9, and a Element10 Solve the Bloekier-ling. Increases see on the Rohrteil6 exercised axial load, whereas while the Elemente9 und 10 see in the Blok 1 ierstellung, so see the increased radiale pressure.

The execution example, after the invention 3 and 3a, differs from your pre-scribed for example Figure 2 and 2a only by being the ring instead of two axial spring winding Very Aube springs 16 pre seen, which are working to solve the blocking effect .

When execution example, after the invention 4 and 4a, the Elemente9 'und10' of the Bloekierorganes from a material with high friction coefficient, for example, Bremsbela - material, manufactured in the Bloekierstel of a strong Reibwirkung to your Rohrteil6 to express. To the axial Versehiebung to facilitate the shid kn Sebräg ir fläe, heii und Eiiclfj, äelieii. dareh - # viiilzelför-: ome Bleehstreifen 17 disguises. The solvent springs are not shown.

When Atisführungsbeispiel to dei Figure 5 and 5a, the

Blöelz-ieror-iiii from four to züi a hohlzylinderförmigen body complementary elements 1-8, in which two Stirnseitenje a konische ALissparung P. In the lower Aussparang paf - it executed the conical part 20 of the Schrauben-bolzens 12 and in the upper Aassparang-19 is a durehbohrter cone 21. When turning the Teile6, 7 er7eu - these funds are 12, 14.15, 20, 21 a Driick on the Bloekierorgan, and those two Konusse 20 and 21 express the Elemente18 the lock organes apart. To solve the Bloekie of Rin has become a spring--11 provides', which is seeking the four Elemente18 züi-sammenzuziehen.

The execution example naeb the invention 6 C - and see-6a differs from to Figy. 5 and 5 that the züm Pulsatus Elemente18 only the lower cone-20 beibe hold.

When Ausführun-sbeispiel naeh Fig. 7 and 7a have the two elements 22 of the Blok-kierorganes each other - eh honored Sehrig areas 230, and instead the Konussen is a keilförmig, he continued Scheibe25 a record 24 before seen, with the Sehrägfleähen'23 zListiiii-menwirkt to beim6 und7 against the pressure generated Eleiiei, te22 in the Bloel # ierstell.uui - aaseinanderzutreiben. To solve the Bloekie insurance, as in Figure 2 and 3 "two very Aube springs 16.

When A Lisifiliriin2,% sl) Example naeh Fig. S, wid Sa has the Bloel # ieroi !---, two Eleillelte 26, which dieje two Aussparungen27 in which sehrägstehende quest einlge-28 sets. In its funding of 12, from 14.15 Axial geübtem pressure are the elements in relation to each versehoben, such daP # angle between the aspiration and the'218-axis of Bloekierorganes-rössert, and thus the other Elemente26 ausein in the Bloekierstellung gedrückt.

When execution for example Fig. 9 and 9a have the Elemente29 of blocking each other organes zugekehrte Sehrägfliiehen 30, between which Wälzehen31 inserted, which exercised through the pressure of the mean of 12, brought axial 14.15. Verschie advertising Elemente29 the cause in the same Blockierstellting auseinandergedrängt.

In Figure 10 and 10a, instead of the other examples used courage Reibring15 ter 14 with a Mutter32 shown the Teil33 a circular which is the cut and see the spring to create Rohrteil6 order for the construction and removal of Mother to the screw bolts erforderliche friction with the pipe teil6 to produce.

Figure 11 and 11a, is a mother as 34 shows, where Reibwirkung by-one in 35 of a mother undrehbar '(-, e-produced, Ringfeder36 gt, which is to be, look with pressure the interior wall of the Rohrteils6 express

them.


Figure 12 and 12a, the recovery rather than a Ringfeder 36 by a Mutter37 fixed to the Flaellieder 38 he testifies. The nuts 34 and 37 with a Fe der36 or 38 can be placed anywhere instead of a parent 14 with Reibring15 applied.

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